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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/025,699	12/26/2001	Masayuki Naya	Q66570	6030	
7590 . 12/19/2003 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.			EXAMINER		
			ROSENBERGER, RICHARD A		
Washington, D			ART UNIT	PAPER NUMBER	
			2877		
			DATE MAILED: 12/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.				
		Application No.	Applicant(s)			
	Office Action Summany	10/025,699	NAYA, MASAYUKI W			
Office Action Summary		Examin r	Art Unit			
		Richard A Rosenberger	2877			
Period f	The MAILING DATE of this communicate or Reply	ion appears on the cover sheet with	the correspondence address			
A SH THE - Exte afte - If th - If No - Fail - Any	MAILING DATE OF THIS COMMUNICATION OF THIS C	FION. CFR 1.136(a). In no event, however, may a reply stion. In a reply within the statutory minimum of thirty (3) In a reply will apply and will expire SIX (6) MONTH: In a statute, cause the application to become ABAN	be timely filed O) days will be considered timely. From the mailing date of this communication.			
1)	Responsive to communication(s) filed or	n				
2a)□		This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	Claim(s) <u>1-12</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are w					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-12</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction	and/or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Ex	aminer.				
10)	The drawing(s) filed on is/are: a)[☐ accepted or b)☐ objected to by	the Examiner.			
	Applicant may not request that any objection					
	Replacement drawing sheet(s) including the	correction is required if the drawing(s) i	s objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by	the Examiner. Note the attached O	ffice Action or form PTO-152.			
Priority (ınder 35 U.S.C. §§ 119 and 120					
a)l * §	Acknowledgment is made of a claim for for the All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International Experiments. See the attached detailed Office action for acknowledgment is made of a claim for documents.	uments have been received. uments have been received in Appl e priority documents have been rec Bureau (PCT Rule 17.2(a)). a list of the certified copies not rec	ication No eived in this National Stage eived.			
si 3	ince a specific reference was included in to $7\ CFR\ 1.78.$	the first sentence of the specification	n or in an Application Data Sheet.			
14)□ Д	Acknowledgment is made of a claim for do eference was included in the first sentence	mestic priority under 35 U.S.C. §§	120 and/or 121 since a specific			
Attachmen	t(s)					
1) 🛛 Notic	e of References Cited (PTO-892)	4) 🔲 Interview Sumr	nary (PTO-413) Paper No(s)			
	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice of Inform	nal Patent Application (PTO-152)			

Art Unit: 2877

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naya et al (US 5,875,032) in view of Aiki et al (US 4,480,325).

Naya et al shows a surface plasmon measuring device such as is generally claimed, including the use of a semiconductor laser as the light source (column 3, line 65). The reference does not teach imposing a high frequency component on the driving current of the laser. It is known in the art that the noise produced by a semiconductor laser can be suppressed or reduced by imposing a high frequency component on the driving current; see Aiki et al.; see claims 12 and 13 of that reference which claim "noise reducing means" comprising driving means "supplying a D.C. current and a high-frequency current superimposed thereon." It would have been obvious to use the known noise reduction laser driving arrangement to drive the laser of a device as shown in the Naya et al reference to obtain the reduction in noise taught by the Aiki et al reference.

Aiki et al teaches using a high frequency component of "at least 50 MHz" (see claim 14), and specifically mentions using 120 MHz (see column 6, line 19). The

reference does not teach or suggest that the frequency is critical; the use of higher frequencies would have been obvious and within the "at least 50 MHZ" range taught by the reference.

The use of known wavelength stabilization means in the device of Naya et al would have been obvious to improve the accuracy and precision of the measurement which would be compromised were the wavelength to shift.

3. Papers related to this application may be submitted to Group 2800 by facsimile transmission. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The fax number is (703) 872-9306

Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. A. Rosenberger whose telephone number is (703) 308-4804.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

R. A. Rosenberger 11 December 2003 Richard A. Rosenberger Primary Examiner